



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Construction of Samudhaya Bhavana at Mariyanapalya in Ward No.07

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
3	Coarse aggregate(20 mm down size)	Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
4	Fine aggregate	Material finer than 75 micron	One Test		1	1
		Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
5	Steel	ReBend test	One Test		1	1
		BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
6	Block(400*200*200)	COMPRESSIVE STRENGTH	One Test		1	1
		BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
7	Block(400*100*200)	COMPRESSIVE STRENGTH	One Test		1	1
		BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	2 set /2-15 cum	9.84	4	4
9	RCC(M25)	Compressive Strength(7days and 28days)	3 set /16-30 cum	19.3	6	6
10	RCC(M25)	Compressive Strength(7days and 28days)	3 set /1-5 cum	3.82	6	6

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RCC(M25)	Compressive Strength(7days and 28days)	3 set /1-5 cum	3.75	6	6
RMC(M20)	Compressive Strength(7days and 28days)	3 set /16-30 cum	17.9	6	6
RCC(M20)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.5	2	2
RCC(M20)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.5	2	2
RCC(M25)	Compressive Strength(7days and 28days)	2 set /1-5 cum	3.91	4	4
Mortar Sand	Water Absorption	One Test		1	1
	Specific Gravity	One Test		1	1
	Material finer than 75 micron	One Test		1	1
	Compacted Bulk Density	One Test		1	1
	Loose Bulk Density	One Test		1	1
Plaster Sand	SIEVE ANALYSIS	One Test		1	1
	Water Absorption	One Test		1	1
	Specific Gravity	One Test		1	1
	Material finer than 75 micron	One Test		1	1
	SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade
Format No: CPTE/01
Lab ID : CP-2020-12-18-51
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction of Samudhaya Bhavana at Maryanapalya in Ward No.07
Agency : Sri. Naveen S, #17, 4th Main Road, Kalyan Nagar, Moodhalapalya, Bangalore-560072
Customer's Reference : EE(Project)/Yrk Zone/WO/402020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-07-20
Sample Type : Birla Super 53 grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland Cement Specification,
IS 4031 (Part 1,2,3,4,5, & 11):1988
IS 4031 Part 11 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 4.4
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 8
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY, Clause 6

Date of test : 04-07-20
Environmental Conditions during test : Temperature : 26°C Humidity : 77%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	
2	Fineness by Air permeability method ($m^2/kg \cdot min$)	348.6	
3	Density (gm/cc)	3.15	2250 $m^2/kg \cdot min$
4	Standard Consistency (%)	28.9%	
5	Initial Setting time	135 minutes	Not specified
6	Final Setting time	245 minutes	Not less than 30 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 600 minutes

• The results obtained are satisfactory as per standard requirements
Note:

The results pertain to the samples received and tested.
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R KARTHICK RECHAN

Authorised Signatory
Quality Manager



Page 1/1
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-12-18-51 Date: 01-08-20
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction of Samudhaya Bhavana at Mariyanapalya in Ward No.07
Agency : Sri. Naveen S, #17, 4th Main Road, Kalyan Nagar, Moodalapalya, Bangalore-560072
Customer's Reference : EE(Project)/Ynk Zone/WO/40/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-07-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 04-07-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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Authorized Signatory
Quality Manager



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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-12-18-51 Date: 06-07-20
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction of Samudhaya Bhavana at Mariyanapalya in Ward No.07
Agency : Sri. Naveen S, #17, 4th Main Road, Kalyan Nagar, Moodalapalya, Bangalore-560072
Customer's Reference : EE(Project)/Ynk Zone/WO/40/2020-21
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 03-07-20
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 03-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	—

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-0048

TEST REPORT ON COARSE AGGREGATES

Form No: CP/TF/01

Lab ID

CP-2020-12-18-51

Date: 06-07-20

PHYSICAL PROPERTIES

Slno	Tests	Result	Requirements as per IS-383-2016
1	Flakiness Index(%)	11.9	Crushed Flakiness & Elongation Index shall not Exceed 40% for Uncrushed & Crushed Aggregates
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	
4	Bulk Density(Loose) (Kg/l)	1.41	---
5	Bulk Density(Compacted) (Kg/l)	1.47	---
6	Water Absorption(%)	0.23	---

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-12-18-51
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction of Samudhaya Bhavana at Mariyanapalya in Ward No.07
Agency : Sri. Naveen S, #17, 4th Main Road, Kalyan Nagar, Moodalapalya, Bangalore-560072
Customer Reference : EE(Project)/Ynk Zone/WO/40/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-07-20
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 03-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken		5000 grams				
Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	-

Page 1/2



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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2020-12-18-51

Date: 06-07-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.43	—
5	Bulk Density(Compacted) (Kg/l)	1.49	—
6	Water Absorption(%)	0.23	—
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Lab ID

Customer

Address

Project Name

Agency

Customer's Reference

Source of Sample

Sample Condition

Date of Receipt

Sample Type

Reference to BIS codes

TEST REPORT OF FINE AGGREGATE

Form No. CP-TR-01

CP-2020-12-18-51

Date: 06-07-20

Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Project Sub Division, BBMP, Bangalore.

Construction of Samadhy's Bhavana at Marjannaipalya in W and No.07

Sri. Navan S. #17, 4th Main Road, Kalyan Nagar, Moodalapalya, Bangalore-560072

EE(Project) Yakk Zone W/O-40/2020-21
Sample supplied by Agency

Satisfactory

03-07-20

Fine Aggregate

IS 383 : 2016 (Specification for Coarse and Fine Aggregate)

IS: 2386 : (Part - 1, 3) B.A.2012

IS 2386 Part 1: Particle Size and Shape

IS 2386 Part 3: Specific Gravity, Density, Yield, Water Absorption

03-07-20

Total weight taken

1000

grams

Sieve	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	229	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	—	—	—	—

Result : The tested Sample Conforms to Grading Zone II





TEST REPORT OF FINE AGGREGATE

Lab ID

CP-2020-12-18-51

Date: 06-07-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	
2	Specific Gravity	2.59	
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager



Page 2/2

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2020-12-18-51
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction of Samudhaya Bhavana at Mariyanapalya in Ward No.07
Agency : Sri. Naveen S, #17, 4th Main Road, Kalyan Nagar, Moodalapalya, Bangalore-560072
Customer's Reference : EE(Project)/Ynk Zone/WO/40/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-07-20
Sample Type/Size : Solid concrete blocks size (400X200X200)mm
Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test : 13-07-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	398	200	199	15840	33.795	2133.5	2070.5	Not less than 1800Kg/m ³
2	405	199	198	15958	32.009	2005.9		
3	403	199	202	16200	33.569	2072.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

Page 1/3

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CP-2628-12-18-51

Date: 16-07-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	399	201	201	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	402	201	199	
3	400	202	199	
4	403	202	202	
5	400	199	203	
6	402	202	202	
7	400	203	203	
8	400	203	199	
9	403	203	201	
10	403	200	201	
11	400	202	202	
12	399	200	203	
13	400	200	200	
14	400	200	203	
15	400	203	200	
16	403	201	201	
17	400	199	202	
18	401	199	202	
19	403	200	202	
20	403	201	203	
Average of 20	401	201	201	

Page 2/3



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Lab ID

:

CP-2020-12-18-51

Date: 16-07-20

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	201	80592	420.2	5.2	5.2
2	402	201	80886	415.6	5.1	
3	400	202	81016	419.4	5.2	
4	403	202	81555	417.8	5.1	
5	400	199	79735	415.6	5.2	
6	402	202	81101	414.4	5.1	
7	400	202	80883	419.2	5.2	
8	400	203	80912	418.9	5.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

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Certificate No.: TC-3548

Formal No: CP/ENQ11

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2020-12-18-51 Date: 16-07-20
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction of Samudhaya Bhavana at Mariyanapalya in Ward No.07
Agency : Sri. Naveen S, #17, 4th Main Road, Kalyan Nagar, Moodalapalya, Bangalore-560072
Customer's Reference : EE(Project)/Ynk Zone/WO/40/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-07-20
Sample Type/Size : Solid concrete blocks size (400X100X200)mm
Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C
Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5
and 10)
Date of test : 13-07-20

BLOCK DENSITY:

SL No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁴	Avg. Block Density in (Kg/cum)	As per IS 2185(Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	403	99	199	7940	32.914	4145.7	4159.6	Not less than 1800Kg/m ³
2	399	101	199	8020	32.355	4034.6		
3	401	98	201	7899	33.954	4298.6		

WATER ABSORPTION:

SL No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg. Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

Page 1/3

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No. - TC-5546

Lab ID : CP-2020-12-18-51

Date: 16-07-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	404	100	203	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	404	102	203	
3	399	101	202	
4	403	102	200	
5	400	101	199	
6	401	100	201	
7	399	101	201	
8	401	101	202	
9	400	103	200	
10	399	100	202	
11	401	100	201	
12	402	103	201	
13	400	99	201	
14	401	102	200	
15	400	100	200	
16	401	101	199	
17	399	100	203	
18	402	102	203	
19	400	100	203	
20	400	99	201	
Average of 20	401	101	201	

Page 2/3

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Date: 16-07-20

Lab ID : CP-2020-12-18-51

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	100	40077	173.0	4.3	4.4
2	404	102	41222	176.4	4.3	
3	399	101	40200	179.5	4.5	
4	403	102	41231	179.1	4.3	
5	400	101	40352	172.3	4.3	
6	401	100	40136	177.3	4.4	
7	399	101	40332	176.5	4.4	
8	401	101	40562	180.2	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

* The results obtained are satisfactory as per standard requirements.

Note:

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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID : CP-2020-12-18-51 Date: 05-07-20
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction of Samudhaya Bhavana at Mariyanapalya in Ward No.07
Agency : Sri. Naveen S, #17, 4th Main Road, Kalyan Nagar, Moodalapalya, Bangalore-560072
Customer's Reference : EE(Project)/Ynk Zone/WO/40/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-07-20
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 04-07-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	20	2.476	584	693	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe500	25	3.472	597	712	18.0%	Satisfactory	Satisfactory

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Quality Manager

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-18-51
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction of Samudhaya Bhavana at Marianapalya in Ward No.07
Agency : Sri. Naveen S, #17, 4th Main Road, Moodalapalya, Bangalore-560072
Customer's Reference : EE(Project)/Ynk Zone/WO/40/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-07-20
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	PCC	M15	18/07/2020	25/07/2020	149.44 X 149.64 X 149.79	22361	8.042	283.7	12.7	12.5
2	PCC	M15	18/07/2020	25/07/2020	150.51 X 151.43 X 150.59	22791	8.989	283.7	12.4	
3	PCC	M15	18/07/2020	25/07/2020	151.05 X 150.82 X 151.77	22780	8.679	283.8	12.5	

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Quality Manager



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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-18-51
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction of Samudhaya Bhavana at Mariyanapalya in Ward No.07
Agency : Sri. Naveen S, #17, 4th Main Road, Kalyan Nagar, Moodalapalya, Bangalore-560072
Customer's Reference : EE(Project)/Ynk Zone/WO/40/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-07-20
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	PCC	M15	18/07/2020	25/07/2020	149.44 X 149.64 X 149.79	22361	8.042	283.7	12.7	12.5
2	PCC	M15	18/07/2020	25/07/2020	150.51 X 151.43 X 150.59	22791	8.989	283.7	12.4	
3	PCC	M15	18/07/2020	25/07/2020	151.05 X 150.82 X 151.77	22780	8.679	283.8	12.5	

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Quality Manager



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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-18-51
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.

Date: 15/08/2020

Project Name : Construction of Samudhaya Bhavana at Mariyanapalya in Ward No.07
Agency : Sri. Naveen S, #17, 4th Main Road, Kalyan Nagar, Moodalapalya, Bangalore-560072

Customer's Reference : EE(Project)/Ynk Zone WO/40/2020-21
Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-20

Customer ID : PCC

Sample Type / Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C15

Date of test : 15/08/2020

Date of test

15/08/2020

PC

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)				
1	PCC	M15	18/07/2020	15/08/2020	150.15 149.34 149.81	X X X	22424	8.774	393.1	17.5				
2	PCC	M15	18/07/2020	15/08/2020	149.32 151.89 151.21	X X X					22640	8.378	389.6	17.2
3	PCC	M15	18/07/2020	15/08/2020	151.03 151.28 149.89	X X X								

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